

## Index of Authors

### VOLUME 88, 1993 (Evoked Potentials)

(Abstracts from Society Proceedings are not included)

Adams, C.M., see Law, S.K. (88) 309  
Adams, H.-P., see Krieger, D. (88) 261  
Agbo, C., see Gil, R. (88) 182  
Ahlfors, S.P., Ilmoniemi, R.J. and Portin, K.  
The effect of stimulation rate on the signal-to-noise ratio of evoked responses (88) 339  
Akazawa, K., see Tobimatsu, S. (88) 12  
Allison, T., Begleiter, A., McCarthy, G., Roessler, E., Nobre, A.C. and Spencer, D.D.  
Electrophysiological studies of color processing in human visual cortex (88) 343  
Amantini, A., see Ragazzoni, A. (88) 335  
Arakawa, K., Peachey, N.S. and Celesia, G.G.  
Spatial frequency response functions obtained from cat visual evoked potentials (88) 143  
Aull, S., see Baumgartner, C. (88) 271  
Baldeweg, T., Gruzelier, J.H., Catalan, J., Pugh, K., Lovett, E., Riccio, M., Stygall, J., Irving, G., Catt, S. and Hawkins, D.  
Auditory and visual event-related potentials in a controlled investigation of HIV infection (88) 356  
Bamford, C.R.  
Dermatomal somatosensory evoked potentials at the cervical, thoracic and lumbosacral levels (88) 432  
Baumgartner, C., Doppelbauer, A., Sutherling, W.W., Lindinger, G., Levesque, M.F., Aull, S., Zeitlhofer, J. and Deecke, L.  
Somatotopy of human hand somatosensory cortex as studied in scalp EEG (88) 271  
Becker, D.E., Yingling, C.D. and Fein, G.  
Identification of pain, intensity and P300 components in the pain evoked potential (88) 290  
Begleiter, A., see Allison, T. (88) 343  
Benecke, R., see Kunesch, E. (88) 459  
Beydoun, A., Morrow, T.J., Shen, J.F. and Casey, K.L.  
Variability of laser-evoked potentials: attention, arousal and lateralized differences (88) 173  
Blenner, J.L. and Yingling, C.D.  
Modality specificity of evoked potential augmenting/reducing (88) 131  
Böcker, K.B.E., Forget, R. and Brunia, C.H.M.  
The modulation of somatosensory evoked potentials during the foreperiod of a forewarned reaction time task (88) 105  
Bone, R.C., see Vesco, K.K. (88) 302  
Boyd, S.G., see Purves, A.M. (88) 118  
Boyd, S.G., see Towell, A.D. (88) 237  
Branston, N.M., see Liu, X. (88) 220  
Brivio, L., Grasso, R., Salvaggio, A. and Principi, N.  
Brain-stem auditory evoked potentials (BAEPs): maturation of interpeak latency I-V (IPL I-V) in the first years of life (88) 28  
Broussolle, E., see Mauguière, F. (88) 243  
Browne, J.K., see Seyal, M. (88) 20  
Brunia, C.H.M., see Böcker, K.B.E. (88) 105  
Brunko, E., see Mavroudakis, N. (88) 240  
Brunko, E., see Vandesteene, A. (88) 77  
Bruyant, P., García-Larrea, L. and Mauguière, F.  
Target side and scalp topography of the somatosensory P300 (88) 468  
Burbaud, P., see Gil, R. (88) 182  
Burkhart, M.A. and Thomas, D.G.  
Event-related potential measures of attention in moderately depressed subjects (88) 42  
Carrell, T., see Kraus, N. (88) 123  
Carrell, T., see Sharma, A. (88) 64  
Casey, K.L., see Beydoun, A. (88) 173  
Catalan, J., see Baldeweg, T. (88) 356  
Catt, S., see Baldeweg, T. (88) 356  
Celesia, G.G., see Arakawa, K. (88) 143  
Chistyakov, A.V., see Soustiel, J.F. (88) 255  
Classen, J., see Kunesch, E. (88) 459  
Curran, T., Tucker, D.M., Kutas, M. and Posner, M.I.  
Topography of the N400: brain electrical activity reflecting semantic expectancy (88) 188  
Davis, K.L., see Faux, S.F. (88) 32  
Deecke, L., see Baumgartner, C. (88) 271  
Defeuvremont, M., see Vandesteene, A. (88) 77  
Delberghe, X., see Mavroudakis, N. (88) 240  
Deltenre, P. and Mansbach, A.L.  
A new descriptor of the dual character of the input-output behaviour of the cochlea, with implications for signal-to-noise ratio estimation of brain-stem auditory potentials evoked by alternating polarity clicks (88) 377  
Desmedt, J.E., Tomberg, C., Raspe, G. and Ducarme, D.  
Inadequacy of the average reference for identifying focal changes in EEG and evoked potential studies (88) 534  
Dobie, R.A. and Wilson, M.J.  
Objective response detection in the frequency domain (88) 516  
Don, M., see Ponton, C.W. (88) 478  
Doppelbauer, A., see Baumgartner, C. (88) 271  
Dumitru, D. and King, J.C.  
Far-field potential production by quadrupole generators in cylindrical volume conductors (88) 421  
Eckardt, M.J., see Law, S.K. (88) 309  
Eggermont, J.J., see Ponton, C.W. (88) 478  
Eimer, M.  
Spatial cueing, sensory gating and selective response preparation: an ERP study on visuo-spatial orienting (88) 408  
Elbert, T., see Pantev, C. (88) 389  
Elidan, J., see Li, G. (88) 225  
Eulitz, C., see Pantev, C. (88) 389

Faux, S.F., McCarley, R.W., Nestor, P.G., Shenton, M.E., Pollak, S.D., Penhune, V., Mondrow, E., Marcy, B., Peterson, A., Horvath, T. and Davis, K.L.  
P300 topographic asymmetries are present in unmedicated schizophrenics (88) 32

Fein, G., see Becker, D.E. (88) 290

Feinsod, M., see Soustiel, J.F. (88) 255

Forget, R., see Böcker, K.B.E. (88) 105

Froehlich, J. and Kaufman, D.I.  
The pattern electroretinogram: N95 amplitudes in normal subjects and optic neuritis patients (88) 83

Fujii, K., see Morioka, T. (88) 453

Fukui, M., see Morioka, T. (88) 453

Furlong, P.L., Wimalaratna, S. and Harding, G.F.A.  
Augmented P22-N31 SEP component in a patient with a unilateral space occupying lesion (88) 72

Gabor, A.J., see Seyal, M. (88) 20

García-Larrea, L., see Bruyant, P. (88) 468

Gil, R., Zai, L., Neau, J.P., Jonveaux, T., Agbo, C., Rosolacci, T., Burbaud, P. and Ingrand, P.  
Event-related auditory evoked potentials and multiple sclerosis (88) 182

Glinz, W., see Gütling, E. (88) 369

Globus, H., see Yamaguchi, S. (88) 151

Gonser, A., see Gütling, E. (88) 369

Grasso, R., see Brivio, L. (88) 28

Gruzelier, J.H., see Baldeweg, T. (88) 356

Guilburd, J.N., see Soustiel, J.F. (88) 255

Gütling, E., Gonser, A., Regard, M., Glinz, W. and Landis, T.  
Dissociation of frontal and parietal components of somatosensory evoked potentials in severe head injury (88) 369

Hacke, W., see Krieger, D. (88) 261

Hafner, H., see Soustiel, J.F. (88) 255

Hampson, S., see Pantev, C. (88) 389

Harding, G.F.A., see Furlong, P.L. (88) 72

Hashimoto, T., see Noachtar, S. (88) 435

Hawkins, D., see Baldeweg, T. (88) 356

Hoke, M., see Pantev, C. (88) 389

Hori, A., Yasuhara, A., Naito, H. and Yasuhara, M.  
Steady-state auditory evoked potentials (SSAEPs) in the rabbit.  
Contribution of the inferior colliculus (88) 229

Horvath, T., see Faux, S.F. (88) 32

Ilmoniemi, R.J., see Ahlfors, S.P. (88) 339

Ingrand, P., see Gil, R. (88) 182

Irving, G., see Baldeweg, T. (88) 356

Isnard, J., see Mauguière, F. (88) 243

Jewett, D.L., see Zhang, Z. (88) 1

Jonveaux, T., see Gil, R. (88) 182

Kai, C., see Ochikubo, F. (88) 397

Kato, M., see Morioka, T. (88) 453

Kato, M., see Tobimatsu, S. (88) 12

Katsuta, T., see Morioka, T. (88) 453

Kaufman, D.I., see Froehlich, J. (88) 83

Kenemans, J.L., Kok, A. and Smulders, F.T.Y.  
Event-related potentials to conjunctions of spatial frequency and orientation as a function of stimulus parameters and response requirements (88) 51

King, J.C., see Dumitru, D. (88) 421

Knecht, S., see Kunesch, E. (88) 459

Knight, R.T., see Yamaguchi, S. (88) 151

Kok, A., see Kenemans, J.L. (88) 51

Kraus, N., McGee, T., Micco, A., Sharma, A., Carrell, T. and Nicol, T.  
Mismatch negativity in school-age children to speech stimuli that are just perceptibly different (88) 123

Kraus, N., see Sharma, A. (88) 64

Krieger, D., Adams, H.-P., Rieke, K. and Hacke, W.  
Monitoring therapeutic efficacy of decompressive craniotomy in space occupying cerebellar infarcts using brain-stem auditory evoked potentials (88) 261

Kunde, V. and Treede, R.-D.  
Topography of middle-latency somatosensory evoked potentials following painful laser stimuli and non-painful electrical stimuli (88) 280

Kunesch, E., Knecht, S., Classen, J., Roick, H., Tyercha, C. and Benecke, R.  
Somatosensory evoked potentials (SEPs) elicited by magnetic nerve stimulation (88) 459

Kurita-Tashima, S., see Tobimatsu, S. (88) 12

Kutas, M., see Curran, T. (88) 188

Landis, T., see Gütling, E. (88) 369

Law, S.K., Rohrbaugh, J.W., Adams, C.M. and Eckardt, M.J.  
Improving spatial and temporal resolution in evoked EEG responses using surface Laplacians (88) 309

Lesser, R.P., see Urasaki, E. (88) 92

Levesque, M.F., see Baumgartner, C. (88) 271

Li, G., Elidan, J. and Sohmer, H.  
The contribution of the lateral semicircular canal to the short latency vestibular evoked potentials in cat (88) 225

Lindinger, G., see Baumgartner, C. (88) 271

Liu, X., Branston, N.M. and Symon, L.  
Early components of transcallosal responses in acute ischaemia of the corpus callosum (88) 220

Loening-Baucke, V. and Yamada, T.  
Cerebral potentials evoked by rectal distention in humans (88) 447

Lombardi, M., see Ragazzoni, A. (88) 335

Lovett, E., see Baldeweg, T. (88) 356

Lüders, H., see Noachtar, S. (88) 435

Macucci, M., see Ragazzoni, A. (88) 335

Makeig, S., see Pantev, C. (88) 389

Mansbach, A.L., see Deltenre, P. (88) 377

Marcy, B., see Faux, S.F. (88) 32

Mascalchi, M., see Ragazzoni, A. (88) 335

Masuda, A., see Ponton, C.W. (88) 478

Masuoka, L.K., see Seyal, M. (88) 20

Matsubara, Y., see Ochikubo, F. (88) 397

Mauguière, F., Broussolle, E. and Isnard, J.  
Apomorphine-induced relief of the akinetic-rigid syndrome and early median nerve somatosensory evoked potentials (SEPs) in Parkinson's disease (88) 243

Mauguière, F., see Bruyant, P. (88) 468

Mavroudakis, N., Brunko, E., Delberghe, X. and Zegers de Beyl, D.  
Dissociation of P13-P14 far-field potentials: clinical and MRI correlation (88) 240

Mavroudakis, N., see Vandesteene, A. (88) 77

McCarley, R.W., see Faux, S.F. (88) 32

McCarthy, G. and Nobre, A.C.  
Modulation of semantic processing by spatial selective attention (88) 210

McCarthy, G., see Allison, T. (88) 343

McGee, T., see Kraus, N. (88) 123

McGee, T., see Sharma, A. (88) 64

Micco, A., see Kraus, N. (88) 123

Møller, A.R., see Szczepaniak, W.S. (88) 508

Mondrow, E., see Faux, S.F. (88) 32

Montoya, P., Schandry, R. and Müller, A.  
Heartbeat evoked potentials (HEP): topography and influence of cardiac awareness and focus of attention (88) 163

Morioka, T., Katsuta, T., Fujii, K., Kato, M. and Fukui, M.  
Discrepancy between SEPs directly recorded from the dorsal column nuclei following upper and lower limb stimulation in patients with syringomyelia (88) 453

Morrow, T.J., see Beydoun, A. (88) 173

Müller, A., see Montoya, P. (88) 163

Nagata, T., see Ochikubo, F. (88) 397

Naito, H., see Hori, A. (88) 229

Nakamura, M., Ozawa, N., Shinba, T. and Yamamoto, K.  
CNV-like potentials on the cortical surface associated with conditioning in head-restrained rats (88) 155

Nakayama-Hiromatsu, M., see Tobimatsu, S. (88) 12

Neau, J.P., see Gil, R. (88) 182

Nestor, P.G., see Faux, S.F. (88) 32

Nicol, T., see Kraus, N. (88) 123

Nicol, T., see Sharma, A. (88) 64

Noachtar, S., Hashimoto, T. and Lüders, H.  
Pattern visual evoked potentials recorded from human occipital cortex with chronic subdural electrodes (88) 435

Nobre, A.C., see Allison, T. (88) 343

Nobre, A.C., see McCarthy, G. (88) 210

Norgia, A.M., see Tang, Y. (88) 323

Ochikubo, F., Nagata, T., Yoshikawa, Y., Matsubara, Y., Kai, C. and Yamanouchi, Y.  
Electroencephalogram and evoked potentials in the primate model of viral encephalitis (88) 397

Ozawa, N., see Nakamura, M. (88) 155

Pantev, C., Elbert, T., Makeig, S., Hampson, S., Eulitz, C. and Hoke, M.  
Relationship of transient and steady-state auditory evoked fields (88) 389

Pascual-Marqui, R.D. and Lehmann, D.  
Comparison of topographic maps and the reference electrode: comments on two papers by Desmedt and collaborators (88) 530

Pascual-Marqui, R.D. and Lehmann, D.  
Topographic maps, source localization inference, and the reference electrode: comments on a paper by Desmedt et al. (88) 532

Peachey, N.S., see Arakawa, K. (88) 143

Penhune, V., see Faux, S.F. (88) 32

Peterson, A., see Faux, S.F. (88) 32

Pinto, F., see Ragazzoni, A. (88) 335

Polich, J., see Vesco, K.K. (88) 302

Pollak, S.D., see Faux, S.F. (88) 32

Ponton, C.W., Don, M., Waring, M.D., Eggermont, J.J. and Masuda, A.  
Spatio-temporal source modeling of evoked potentials to acoustic and cochlear implant stimulation (88) 478

Portin, K., see Ahlfors, S.P. (88) 339

Posner, M.I., see Curran, T. (88) 188

Principi, N., see Brivio, L. (88) 28

Pugh, K., see Baldeweg, T. (88) 356

Purves, A.M. and Boyd, S.G.  
Time-shifted averaging for laser evoked potentials (88) 118

Ragazzoni, A., Amantini, A., Lombardi, M., Macucci, M., Mascalchi, M. and Pinto, F.  
Electric and CO<sub>2</sub> laser SEPs in a patient with asymptomatic syringomyelia (88) 335

Regard, M., see Gütling, E. (88) 369

Riccio, M., see Baldeweg, T. (88) 356

Rieke, K., see Krieger, D. (88) 261

Roessler, E., see Allison, T. (88) 343

Rohrbaugh, J.W., see Law, S.K. (88) 309

Roick, H., see Kunesch, E. (88) 459

Rosolacci, T., see Gil, R. (88) 182

Ryan, J.C., see Vesco, K.K. (88) 302

Salvaggio, A., see Brivio, L. (88) 28

Schandry, R., see Montoya, P. (88) 163

Seyal, M., Browne, J.K., Masuoka, L.K. and Gabor, A.J.  
Enhancement of the amplitude of somatosensory evoked potentials following magnetic pulse stimulation of the human brain (88) 20

Sharma, A., Kraus, N., McGee, T., Carrell, T. and Nicol, T.  
Acoustic versus phonetic representation of speech as reflected by the mismatch negativity event-related potential (88) 64

Sharma, A., see Kraus, N. (88) 123

Shen, J.F., see Beydoun, A. (88) 173

Shenton, M.E., see Faux, S.F. (88) 32

Shinba, T., see Nakamura, M. (88) 155

Slimp, J.C.  
Dermatomal somatosensory evoked potentials at the cervical, thoracic, and lumbosacral levels: a response (88) 434

Smulders, F.T.Y., see Kenemans, J.L. (88) 51

Sohmer, H., see Li, G. (88) 225

Soustiel, J.F., Hafner, H., Chistyakov, A.V., Guilburd, J.N., Zaaron, M., Yussim, E. and Feinsod, M.  
Monitoring of brain-stem trigeminal evoked potentials. Clinical applications in posterior fossa surgery (88) 255

Spencer, D.D., see Allison, T. (88) 343

Stygall, J., see Baldeweg, T. (88) 356

Sutherling, W.W., see Baumgartner, C. (88) 271

Symon, L., see Liu, X. (88) 220

Szczepaniak, W.S. and Møller, A.R.  
Interaction between auditory and somatosensory systems: a study of evoked potentials in the inferior colliculus (88) 508

Tang, Y. and Norcia, A.M.  
Improved processing of the steady-state evoked potential (88) 323

Taylor, M.J.  
Maturational changes in ERPs to orthographic and phonological tasks (88) 494

Thomas, D.G., see Burkhart, M.A. (88) 42

Tobimatsu, S., Kurita-Tashima, S., Nakayama-Hiromatsu, M., Akazawa, K. and Kato, M.  
Age-related changes in pattern visual evoked potentials: differential effects of luminance, contrast and check size (88) 12

Tokimura, T., see Urasaki, E. (88) 525

Towell, A.D. and Boyd, S.G.  
Sensory and cognitive components of the CO<sub>2</sub> laser evoked cerebral potential (88) 237

Treede, R.-D., see Kunde, V. (88) 280

Tucker, D.M., see Curran, T. (88) 188

Tyercha, C., see Kunesch, E. (88) 459

Uematsu, S., see Urasaki, E. (88) 92

Urasaki, E., Tokimura, T., Yasukouchi, H., Wada, S.-i. and Yokota, A.  
P30 and N33 of posterior tibial nerve SSEPs are analogous to P14 and N18 of median nerve SSEPs (88) 525

Urasaki, E., Uematsu, S. and Lesser, R.P.  
Short latency somatosensory evoked potentials recorded around the human upper brain-stem (88) 92

Vandesteeene, A., Mavroudakis, N., Defevrimont, M., Brunko, E. and Zegers de Beyl, D.  
Topographic analysis of the effects of isoflurane anesthesia on SEP (88) 77

Vesco, K.K., Bone, R.C., Ryan, J.C. and Polich, J.  
P300 in young and elderly subjects: auditory frequency and intensity effects (88) 302

Wada, S.-i., see Urasaki, E. (88) 525

Waring, M.D., see Ponton, C.W. (88) 478

Wilson, M.J., see Dobie, R.A. (88) 516

Wimalaratna, S., see Furlong, P.L. (88) 72

Yamada, T., see Loening-Baucke, V. (88) 447

Yamaguchi, S., Globus, H. and Knight, R.T.  
P3-like potential in rats (88) 151

Yamamoto, K., see Nakamura, M. (88) 155

Yamanouchi, Y., see Ochikubo, F. (88) 397

Yasuhara, A., see Hori, A. (88) 229

Yasuhara, M., see Hori, A. (88) 229

Yasukouchi, H., see Urasaki, E. (88) 525

Yingling, C.D., see Becker, D.E. (88) 290

Yingling, C.D., see Blenner, J.L. (88) 131

Yokota, A., see Urasaki, E. (88) 525

Yoshikawa, Y., see Ochikubo, F. (88) 397

Yussim, E., see Soustiel, J.F. (88) 255

Zaaroor, M., see Soustiel, J.F. (88) 255

Zai, L., see Gil, R. (88) 182

Zegers de Beyl, D., see Mavroudakis, N. (88) 240

Zegers de Beyl, D., see Vandesteene, A. (88) 77

Zeithofer, J., see Baumgartner, C. (88) 271

Zhang, Z. and Jewett, D.L.  
Insidious errors in dipole localization parameters at a single time-point due to model misspecification of number of shells (88) 1

# Index of Subjects

## VOLUME 88, 1993 (Evoked Potentials)

(Abstracts from Society Proceedings are not included)

- Acoustic vs. phonetic ERPs, 64
- Action potentials
  - far-field potential production, 421
- Afferent fibers
  - topography of  $A\delta$  and  $A\beta$  fiber SEPs, 280
- Age
  - and pattern VEPs, 12
  - P300, and stimulus factors, 302
- Akinetic-rigid syndrome
  - on-off fluctuations and SEPs, 243
- Anesthesia
  - effects of isoflurane on SEP, 77
- Apomorphine
  - on-off fluctuations and SEPs in parkinsonism, 243
- Ary correction
  - errors in dipole localization parameters, 1
- Asymmetries of ERP topography in schizophrenia, 32
- Attention
  - ERP measure of attention in depression, 42
  - ERPs and selection of visual stimuli, 51
  - ERPs in a spatial cueing task, 408
  - heartbeat EP and cardiac perception, 163
  - P3 and the  $CO_2$  laser EP, 237
  - P3-like potential in rats, 151
  - semantic processing and spatial attention, 210
  - target side and P300 scalp topography, 468
  - variability of laser EPs, 173
- Auditory and visual ERPs in HIV infection, 356
- Auditory evoked fields, 389
- Auditory evoked potentials
  - and inferior colliculus, 229, 508
  - and multiple sclerosis, 182
  - auditory/somatosensory interaction, 508
  - improving resolution with Laplacian derivation, 309
  - inferior colliculus and steady-state AEPs, 229
  - mismatch negativity in children, 123
  - modality specificity of augmenting/reducing, 131
  - source modeling in cochlear implant subjects, 478
  - transient and steady-state AEPs, 389
- Auditory stimuli
  - P300, age and stimulus factors, 302
- Augmenting-reducing response and modality specificity, 131
- Average
  - controversy on the average reference electrode, 530, 534
  - time-shifted averaging for laser EPs, 118
- BAEPs, *see* Brain-stem auditory evoked potentials
- Balloon distention of the rectum, 447
- Brain-stem
  - SEPs by median nerve stimulation, 92
  - trigeminal EP monitoring, 255
- Brain-stem auditory evoked potentials
  - in space-occupying cerebellar infarctions, 261
  - interpeak latency I-V maturation, 28
  - plus-minus average and BAEP to alternating clicks, 377
  - viral encephalitis in squirrel monkey, 397
- Cardiac perception and heartbeat EP, 163
- Cat
  - lateral canal and vestibular EP generators, 225
  - spatial frequency functions from VEPs, 143
- Categorization
  - acoustic vs. phonetic ERPs, 64
- Cerebellar lesions and BAEPs, 261
- Cerebral ischemia and transcallosal responses, 220
- Cervical N13 in asymptomatic syringomyelia, 335
- Childhood
  - interpeak latency I-V maturation in the first years, 28
  - mismatch negativity in children, 123
- Cholinergic mechanisms
  - spatial frequency functions from cat VEPs, 143
- Click polarity, plus-minus average and BAEPs, 377
- Cochlea
  - AEP source modeling in cochlear implant subjects, 478
  - plus-minus average and BAEP to alternating clicks, 377
- Cognitive deficits
  - in HIV infection, 356
  - in multiple sclerosis, 182
- Coherence analysis in the frequency domain, 516
- Colors, *see* Vision
- Coma and dissociation of frontal and parietal SEPs, 369
- Contingent negative variation
  - CNV-like potential in rats, 155
  - ERPs in a spatial cueing task, 408
- Contrast sensitivity and aging, 12
- Corpus callosum
  - transcallosal responses in ischemia, 220
- Cortex
  - P22-N31 SEP in unilateral cerebral lesion, 72
  - color processing in human visual cortex, 343
- Decompressive surgery and BAEPs, 261
- Depression
  - auditory ERPs and multiple sclerosis, 182
  - ERP measure of attention in depression, 42
- Depth recording
  - color processing in human visual cortex, 343
  - upper brain-stem SEPs by median nerve stimulation, 92
- Dermatomal SEPs, 432, 434
- Desynchronization
  - dorsal column SEPs in syringomyelia, 453
- Digital filtering and steady-state EP, 323
- Dipole localization
  - AEP source modeling in cochlear implant subjects, 478
  - errors in dipole localization parameters, 1
  - far-field potential production, 421
  - somatotopy in scalp EEG, 271

- Direct recording of tibial and median nerve SEPs, 525
- Discrete Fourier transform analysis
  - improved processing of steady-state EP, 323
- Discrimination
  - mismatch negativity in children, 123
- Dorsal column SEPs in syringomyelia, 453
- Drowsiness and variability of laser EPs, 173
- EcoG
  - chronic subdural recording of pattern VEPs, 435
- EEG
  - controversy on the average reference electrode, 530, 534
  - somatotopy in scalp EEG, 271
  - viral encephalitis in squirrel monkey, 397
- Elderly, *see* Age
- Electroretinogram, 83
- Encephalitis in squirrel monkey, 397
- Endogenous potentials
  - SEPs in a forewarned reaction time task, 105
- Epilepsy
  - somatotopy in scalp EEG, 271
  - upper brain-stem SEPs by median nerve stimulation, 92
- Event-related potentials
  - acoustic vs. phonetic ERPs, 64
  - and selection of visual stimuli, 51
  - auditory and visual ERPs in HIV infection, 356
  - auditory ERPs and multiple sclerosis, 182
  - ERP measure of attention in depression, 42
  - ERP topography in schizophrenia, 32
  - in a spatial cueing task, 408
  - mismatch negativity in children, 123
  - P3-like potential in rats, 151
  - P300, age and stimulus factors, 302
  - semantic processing and spatial attention, 210
  - target side and P300 scalp topography, 468
  - to orthographic and phonological tasks, 494
  - variability of laser EPs, 173
- Evoked potentials
  - auditory, *see* Auditory evoked potentials
  - auditory/somatosensory interaction, 508
  - BAEPs, *see* Brain-stem auditory evoked potentials
  - brain-stem trigeminal EP monitoring, 255
  - CNV-like potential in rats, 155
  - errors in dipole localization parameters, 1
  - far-field potential production, 421
  - heartbeat EP and cardiac perception, 163
  - improved processing of steady-state EP, 323
  - improving EEG resolution, 309
  - lateral canal and cat vestibular EP generators, 225
  - objective response detection in the frequency domain, 516
  - pain evoked potential components, 290
  - P3 and the CO<sub>2</sub> laser EP, 237
  - rectal evoked cerebral potentials, 447
  - somatosensory, *see* Somatosensory evoked potentials
  - stimulation rate and signal-to-noise ratio, 339
  - time-shifted averaging for laser EPs, 118
  - visual, *see* Visual evoked potentials
- Extralemniscal system and inferior colliculus, 508
- Far-field potentials, 240, 421
- First year of life and interpeak latency I-V maturation, 28
- Frequency domain
  - objective response detection, 516
- Frontal and parietal SEPs in severe head injury, 369
- Functional somatotopy in scalp EEG, 271
- Gamma band
  - transient and steady-state AEFs, 389

- Generators
  - dissociation of P13-P14 far-field potentials, 240
  - errors in dipole localization parameters, 1
  - lateral canal and cat vestibular EP generators, 225
- Geniculate body and steady-state AEPs, 229
- Glasgow Outcome Scale in severe head injury, 369
- Hand somatotopy in scalp EEG, 271
- Head injury and dissociation of frontal and parietal SEPs, 369
- Heartbeat EP and cardiac perception, 163
- HIV infection, auditory and visual ERPs, 356
- Hotelling  $T^2$  test
  - objective response detection in the frequency domain, 516
- Immunodeficiency virus, *see* HIV infection
- Infants *see* Childhood
- Infarction of cerebellum, and BAEPs, 261
- Inferior colliculus
  - and auditory/somatosensory interaction, 508
  - and steady-state AEPs, 229
- Intensive care
  - brain-stem trigeminal EP monitoring, 255
- Interpeak latency I-V maturation in the first years, 28
- Interstimulus interval and signal-to-noise ratio, 339
- Intraoperative monitoring
  - BAEPs in space-occupying cerebellar infarctions, 261
  - brain-stem trigeminal EP monitoring, 255
- Ischemia and transcallosal responses, 220
- Isoflurane effects on SEP, 77
- Language processing
  - acoustic vs. phonetic ERPs, 64
  - ERPs to orthographic and phonological tasks, 494
  - mismatch negativity in children, 123
  - semantic processing and spatial attention, 210
- Laplacian derivation and improvement of EEG resolution, 309
- Laser
  - absent N13 in asymptomatic syringomyelia, 335
  - P3 and the CO<sub>2</sub> laser EP, 237
  - time-shifted averaging for laser EPs, 118
  - topography of A $\delta$  and A $\beta$  fiber SEPs, 280
  - variability of laser EPs, 173
- Latency intensity functions
  - plus-minus average and BAEP to alternating clicks, 377
- Late positive complex
  - N400 topography and semantic priming, 188
- Lateralization
  - target side and P300 scalp topography, 468
- Lesions
  - BAEPs in space-occupying cerebellar infarctions, 261
  - dissociation of P13-P14 far-field potentials, 240
  - P22-N31 SEP in unilateral cerebral lesion, 72
  - SEPs in severe head injury, 369
- Lexical access
  - N400 topography and semantic priming, 188
- Luminance, pattern VEPs and aging, 12
- Magnetic resonance imaging
  - dissociation of P13-P14 far-field potentials, 240
- Magnetic stimulation
  - magnetic pulse stimulation of the brain, 20
  - SEPs to magnetic nerve stimulation, 459
- Magnetoencephalogram
  - stimulation rate and signal-to-noise ratio, 339
  - transient and steady-state AEFs, 389
- Magnitude-squared coherence
  - objective response detection in the frequency domain, 516
- Mapping, *see* Topographic mapping

## Maturation

- ERPs to orthographic and phonological tasks, 494
- of interpeak latency I-V in the first years, 28

## Median nerve

- comparison of tibial and median nerve SEPs, 525
- dorsal column SEPs in syringomyelia, 453
- magnetic pulse stimulation of the brain, 20
- on-off fluctuations and SEPs in parkinsonism, 243
- upper brain-stem SEPs, 92

## Methods

- errors in dipole localization parameters, 1

## Midlatency responses

- inferior colliculus and steady-state AEPs, 229
- topography of  $A\delta$  and  $A\beta$  fiber SEPs, 280

## Mismatch negativity

- acoustic vs. phonetic ERPs, 64
- in children, 123

## Modeling

- AEP source modeling in cochlear implant subjects, 478
- errors in dipole localization parameters, 1
- far-field potential production, 421
- improved processing of steady-state EP, 323
- somatotopy in scalp EEG, 271

## Monitoring

- BAEPs in space-occupying cerebellar infarctions, 261
- chronic subdural recording of pattern VEPs, 435
- of brain-stem trigeminal EP, 255

## Monkey

- viral encephalitis in squirrel monkey, 397

## Motor deficit

- on-off fluctuations and SEPs in parkinsonism, 243

Motor preparation, *see* Preparation to movement

## Multiple sclerosis and auditory ERPs, 182

## Myotonic dystrophy

- absent N13 in asymptomatic syringomyelia, 335

## Nd wave

- ERP measure of attention in depression, 42

## Nerve

- comparison of tibial and median nerve SEPs, 525
- SEPs to magnetic nerve stimulation, 459

## Neuroleptics

- ERP topography in schizophrenia, 32

## Neuropathy

- SEPs to magnetic nerve stimulation, 459

## Normal human subjects

- acoustic vs. phonetic ERPs, 64
- aging and pattern VEPs, 12
- ERPs and selection of visual stimuli, 51
- heartbeat EP and cardiac perception, 163
- magnetic pulse stimulation of the brain, 20
- modality specificity of augmenting/reducing, 131
- N400 topography and semantic priming, 188
- N95 amplitude of pattern electroretinogram, 83
- pain evoked potential components, 290
- plus-minus average and BAEP to alternating clicks, 377
- P3 and the  $CO_2$  laser EP, 237
- P300, age and stimulus factors, 302
- rectal evoked cerebral potentials, 447
- semantic processing and spatial attention, 210
- SEPs in a forewarned reaction time task, 105
- time-shifted averaging for laser EPs, 118
- topography of  $A\delta$  and  $A\beta$  fiber SEPs, 280
- transient and steady-state AEPs, 389
- variability of laser EPs, 173

## Novelty condition and P3-like potential in rats, 151

## N18

- upper brain-stem SEPs by median nerve stimulation, 92

## N30

- on-off fluctuations and SEPs in parkinsonism, 243

## N33

- comparison of tibial and median nerve SEPs, 525

## N400

- N400 topography and semantic priming, 188

- semantic processing and spatial attention, 210

## N95 amplitude of pattern electroretinogram, 83

## Objective response detection in the frequency domain, 516

## Occipital cortex and color processing, 343

## Oddball paradigm

- P3 and the  $CO_2$  laser EP, 237

## On-off fluctuations and SEPs in parkinsonism, 243

## Optic neuritis and N95 amplitude of pattern ERG, 83

## Orientation

- ERPs and selection of visual stimuli, 51

- P3-like potential in rats, 151

## Orthographic task, 494

## Outcome of severe head injury, 369

## Pain

- absent N13 in asymptomatic syringomyelia, 335

- pain evoked potential components, 290

- topography of  $A\delta$  and  $A\beta$  fiber SEPs, 280

- variability of laser EPs, 173

## Parkinsonism, on-off fluctuations and SEPs, 243

## Parietal and frontal SEPs in severe head injury, 369

## Pattern

- aging and pattern VEPs, 12

- N95 amplitude of pattern electroretinogram, 83

## Perceptual processes and heartbeat EP, 163

## Peristriate cortex and color processing, 343

## Phase coherence

- objective response detection in the frequency domain, 516

## Phonological task, 494

## Physostigmine

- spatial frequency functions from cat VEPs, 143

## Plus-minus average and BAEP to alternating clicks, 377

## Posterior fossa

- brain-stem trigeminal EP monitoring, 255

## Preparation to movement, 105

## P30

- comparison of tibial and median nerve SEPs, 525

## P300

- age and stimulus factors, 302

- and the  $CO_2$  laser EP, 237

- auditory and visual ERPs in HIV infection, 356

- auditory ERPs and multiple sclerosis, 182

- ERP topography in schizophrenia, 32

- pain evoked potential components, 290

- P3-like potential in rats, 151

- semantic processing and spatial attention, 210

- target side and P300 scalp topography, 468

## Rabbit

- inferior colliculus and steady-state AEPs, 229

## Radial nerve

- topography of  $A\delta$  and  $A\beta$  fiber SEPs, 280

## Rat

- CNV-like potential, 155

- P3-like potential, 151

## Reaction time

- SEPs in a forewarned reaction time task, 105

Readiness potentials in a spatial cueing task, 408  
 Reading  
 – ERPs to orthographic and phonological tasks, 494  
 – N400 topography and semantic priming, 188  
 Rectal evoked cerebral potentials, 447  
 Reference electrode, a controversy, 530, 534  
 Response detection in the frequency domain, 516  
 Retinal ganglion cell and pattern electroretinogram, 83  
 Scalp topography of A $\delta$  and A $\beta$  fiber SEPs, 280  
 Schizophrenia and ERP topography, 32  
 Selection negativity, 51  
 Selective attention, *see* Attention  
 Semantic priming  
 – and N400 topography, 188  
 – and spatial attention, 210  
 Semicircular canal and cat vestibular EP generators, 225  
 Sensory component  
 – P3 and the CO<sub>2</sub> laser EP, 237  
 Sensory gating  
 – SEPs in a forwarned reaction time task, 105  
 Sensory modulation  
 – modality specificity of augmenting/reducing, 131  
 Sex differences  
 – interpeak latency I–V maturation in the first years, 28  
 Short latency SEP components in a reaction time task, 105  
 Signal processing  
 – time-shifted averaging for laser EPs, 118  
 Signal-to-noise ratio  
 – and stimulation rate, 339  
 – improved processing of steady-state EP, 323  
 – plus-minus average and BAEP to alternating clicks, 377  
 Sleep  
 – variability of laser EPs, 173  
 Slow potential  
 – CNV-like potential in rats, 155  
 Somatosensory cortex  
 – P22-N31 SEP in unilateral cerebral lesion, 72  
 – SEPs to magnetic nerve stimulation, 459  
 – somatotopy in scalp EEG, 271  
 – topography of A $\delta$  and A $\beta$  fiber SEPs, 280  
 Somatosensory evoked potentials  
 – absent N13 in asymptomatic syringomyelia, 335  
 – comparison of tibial and median nerve SEPs, 525  
 – dermatomal SEPs, 432, 434  
 – dissociation of frontal and parietal SEPs, 369  
 – dissociation of P13-P14 far-field potentials, 240  
 – dorsal column SEPs in syringomyelia, 453  
 – effects of isoflurane anesthesia, 77  
 – in a forwarned reaction time task, 105  
 – inferior colliculus and auditory/somatosensory interaction, 508  
 – in severe head injury, 369  
 – magnetic pulse stimulation of the brain, 20  
 – on-off fluctuations in parkinsonism, 243  
 – pain evoked potential components, 290  
 – P22-N31 SEP in unilateral cerebral lesion, 72  
 – target side and P300 scalp topography, 468  
 – to magnetic nerve stimulation, 459  
 – topography of A $\delta$  and A $\beta$  fiber SEPs, 280  
 – upper brain-stem SEPs by median nerve stimulation, 92  
 Somatotopy in scalp EEG, 271  
 Source localization  
 – AEP source modeling in cochlear implant subjects, 478  
 – controversy on the average reference electrode, 530, 534  
 – improving EEG resolution with Laplacian derivation, 309  
 Spatial cueing task and ERPs, 408  
 Spatial distribution, *see* Topographic mapping

Spatial frequency  
 – aging and pattern VEPs, 12  
 – spatial frequency functions from cat VEPs, 143  
 Spatiotemporal analysis  
 – AEP source modeling in cochlear implant subjects, 478  
 Speech, *see* Language  
 Spinal cord and dermatomal SEPs, 432, 434  
 Spino-medullary lesion and P13-P14 far-field potentials, 240  
 Steady-state response  
 – improved processing of EP, 323  
 – inferior colliculus and AEPs, 229  
 – transient and steady-state AEFs, 389  
 Stimulus rate and signal-to-noise ratio, 339  
 Subdural recording of pattern VEPs, 435  
 Swept stimulus method  
 – spatial frequency functions from cat VEPs, 143  
 Syringomyelia  
 – absent N13 in asymptomatic syringomyelia, 335  
 – dorsal column SEPs, 453  
 Temporal lobe  
 – ERP topography in schizophrenia, 32  
 Tibial nerve  
 – comparison of tibial and median nerve SEPs, 525  
 – dorsal column SEPs in syringomyelia, 453  
 Time domain  
 – improving EEG resolution with Laplacian derivation, 309  
 Topographic mapping  
 – auditory and visual ERPs in HIV infection, 356  
 – CNV-like potential in rats, 155  
 – controversy on the average reference electrode, 530, 534  
 – effects of isoflurane anesthesia on SEP, 77  
 – ERP topography in schizophrenia, 32  
 – improving EEG resolution with Laplacian derivation, 309  
 – N400 topography and semantic priming, 188  
 – target side and P300 scalp topography, 468  
 Transcallosal response in ischemia, 220  
 Trigeminal EP monitoring, 255  
 Vertex potentials  
 – ERPs and selection of visual stimuli, 51  
 Vestibular responses and lateral canal, 225  
 Vigilance and variability of laser EPs, 173  
 Viral encephalitis in squirrel monkey, 397  
 Visual cortex and color processing, 343  
 Visual ERPs in HIV infection, 356  
 Visual evoked potentials  
 – aging and pattern VEPs, 12  
 – chronic subdural recording of pattern VEPs, 435  
 – color processing in human visual cortex, 343  
 – modality specificity of augmenting/reducing, 131  
 – N400 topography and semantic priming, 188  
 – spatial frequency functions from cat VEPs, 143  
 – viral encephalitis in squirrel monkey, 397  
 Visual stimuli and ERPs, 51  
 Visuospatial orienting  
 – ERPs in a spatial cueing task, 408  
 Volume conduction  
 – far-field potential production, 421  
 Wave form  
 – auditory and visual ERPs in HIV infection, 356